

IN THE CLAIMS:

Please cancel claims 1-58 without prejudice and add new claims 59-76 as follows:

1-58. (Canceled)

59. A method of transmitting a multicast service in a mobile communications system, the method comprising:
mapping at least one logical channel to a transport channel; and
transmitting data of the at least one logical channel to a terminal via the transport channel, the data transmitted with a header comprising a first identifier to identify the at least one logical channel and a second identifier to identify the multicast service.

60. The method of claim 59, wherein the first identifier is a Target Channel Type Field (TCTF).

61. The method of claim 59, wherein the second identifier is a Multimedia Broadcast/Multicast Service (MBMS) identifier.

62. The method of claim 61, wherein the MBMS identifier is an m-RNTI (Radio Network Temporary Identity).

63. The method of claim 59, wherein the header further comprises a third identifier for identifying a type of the second identifier.

64. The method of claim 63, wherein the third identifier is an UE ID Type.

65. The method of claim 59, wherein the at least one logical channel is a dedicated logical channel or a common logical channel.

66. The method of claim 59, wherein the transport channel is a shared transport channel.

67. The method of claim 66, wherein the shared transport channel is a downlink shared channel (DSCH).

68. A method of receiving a multicast service in a mobile communications system, the method comprising:

receiving data of at least one logical channel via a transport channel, the data received with a header comprising a first identifier to identify the at least one logical channel and a second identifier to identify the multicast service;

identifying the at least one logical channel and the multicast service according to the first identifier and the second identifier; and

transferring the data to a logical channel mapped to the transport channel according to the first identifier.

69. The method of claim 68, wherein the first identifier is Target Channel Type Field (TCTF).

70. The method of claim 68, wherein the second identifier is a Multimedia Broadcast/Multicast Service (MBMS) identifier.

71. The method of claim 70, wherein the MBMS identifier is an m-RNTI (Radio Network Temporary Identity).

72. The method of claim 68, wherein the header further comprises a third identifier for identifying a type of the second identifier.

73. The method of claim 72, wherein the third identifier is an UE ID Type.

74. The method of claim 68, wherein the at least one logical channel is a dedicated logical channel or a common logical channel.

75. The method of claim 68, wherein the transport channel is a shared transport channel.

76. The method of claim 75, wherein the shared transport channel is a downlink shared channel (DSCH).